		•	Release 2004/05/21 : CIA-RDP71B00822R000100140002	25X
			13 September 1963	
MEMORANDUM	FOR	THE	RECORD	
SUBJECT	:	Info	ormation for the Purcell Panel ommendation	
REFERENCES	•	A.	Memorandum for the Record of CIA for Brockway McMillan, Director, National Reconnaissance Office, dated 11 September 1963	
		В.	Action Under Way Responsive to the Purcell Report Recommendations  (Attachment to Reference A	
l. Re reference F	efere 3.	nce	A is a letter of transmittal for	
2. Re	f <b>er</b> e	nce	B covers 19 separate actions now underway	
ny the um	DERI	I An	ions of myself,	25X
wented us f In such cas	rom es n	een gett o co	where we have information, are made. In some areas, lack of comthe NRO Staff, SAFSP, and OSA had preding sufficient information to comment.  mment is noted. The paragraph numbers given in parenthesis before each comment	
tion o Covera	ge S	yste	questions the lack of justifica- 6 It. system. The need for the broad m with resolution performance between the LANYARD system has been a	25X

25X1 point of considerable dispute. For many uses it would appear that the system would be worthwhile; the need

or requirement for this performance should basically be based on NPIC findings on MURAL/

## (2) The Improvement on the MURAL System

The consensus is that most of the items noted in this paragraph are not significant with respect to over-all performance improvement, but will improve peak performance. To date, little correlation between factors to be corrected by these measures and performance variability has been shown.

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NRO review(s) completed.

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concurs in the inclusion of crab control although it is not clearly needed at the present performance of the MURAL system. Lower altitude orbits are desirable; however, there are many trade-offs in selection in operating parameters: the orbital altitude can not be independently chosen. The corrective measures given here are to be implemented by Technical Directive of the Configuration Control Board. The required TD's are now under consideration. I understand, however, that no money is available for these additional TD's during this fiscal year.

## (3) Standardize Objective Test of Quality

Some reservations have been expressed regarding the Reciprocal Edge Spread measurements and lack of correlation with MIL-STD 150A and subjective estimates of usability. A less laborious, and more acceptable test method for evaluation of actual take needs development. The remainder of the test program outlined is good.

- (4) No comment.
- (5) No comment.
- (6) No comment. OSA has not been involved in the study on the Program nor on the program review presently underway.

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- (7) We agree firmly with the comment with regard to higher speed film. I understand that Eastman has in the laboratory an improved material at approximately twice the speed of current materials. Work is underway at Horizons Inc. on non-silver halide photosensitive material. The Horizons devilonments are in a very early stage at this time.
- (8) The image intensifier is an obvious means of increasing effective film speed. ORD has been following the developments in this field, they do not appear to have immediate application although they might be useful in several years.

Par : (9) The development program on large diameter lenses appears very useful and OSA has desired to cooperate in the analyses of proposed systems. From what we know, the preliminary indications noted are valid. Itek has been having some difficulties in manufacture of mirrors for the LANYARD System and for the 240" focal length experimental camera. (10) We agree generally with the comments of the NRO Staff. I was under the impression of the NR I believe that procurement of rell-joint 025X1from Lockheed needed for pointing with Agena systam is still being procured. Considering the comment on a satisfactory performance of the G-E OCV, I do not understand the continuance of the roll-joi at procurement. (11) In addition to the activities mentioned in paragraph 11, E.K. is doing some analyses work under 25X1 their R & D contract. has also been active an NRO this field. 25X1 NRO 25X1

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The J System is currently very weight-limited. It does not appear that within the next year very much can be done in application of the measures detailed in the report without reversion to the standard MURAL Configuration.

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- (13) The quick reaction capability has been requested by many users. Considering targeting techniques and timing, the THOR auto-pilot changes are less necessary than the Agena programmer modifications. The results of the SSD/162 Program office study on R-2 or R-3 capability will be of great interest, as this capability should meet the needs of the community.
- (14) Some of the developments needed for the Covert Satellite could quite possibly be dene under the cover of a quick reaction vehicle. In this way a quick reaction vehicle could be developed. I understand that the study is on Bomb Damage Assessment rather than Post-Strike Beconnaissance.
  - (15) I agree with this comment.
- (16) The Purcell Panel recommendation was for further development analyses on a Covert Satellite capability. The Panel assumed that the air launch was probably the best. The GD/FW (Convair) proposal of a year ago (B-58 MINUTEMAN Bystem) was not a 300 pound payload, but rather, 1200 to 1500 pounds. To have also investigated a POLARIS/OXCART combination with around 600 pounds capability. The cost of the needed guidance system has been estimated at

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which OSA wishes to undertake is aimed at a bettek understanding of capability, cost, and guidance system needs. The proposals to NRO were for a cotert launch not for a total covert operation. We agree that the operation must be completely covert. I seel that the program which we have cutlined in the past is required in order to determine the possibility and

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cost of the covert operation; the worth of having the system on hand is difficult to assess. We are proposing a symposium for defining the circumstances of operation.

- (17) The Itek tests have been completed. The results conclusively demonstrate that: (a) Useful intelligence can be obtained from night light pattern photography; (b) activities at night are clearly identified; (c) lack of activity may be clearly identified. In general, the approach noted in the report is correct.
  - (18) No comment.
  - (19) No comment.

Development Division (Special Activities)

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